Global R&D EHS Department
3M Environment, Health, Safety & Product Stewardship

3M Center, Building 270-03-S-13
St. Paul, MN 55144-1000

3M October 13, 2020

Certified Mail

Fiscal Services – 6th Floor
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Subject: Major Permit Modification Application for 3M Center - R&D Facility (12300015)

To Whom It May Concern:

3M Center R&D Facility (3M) is submitting the enclosed application for a major permit modification to their Title V Air Quality permit number 12300015-102. The purpose of this permit action is to modify compliance demonstration requirements related to numerous spray booths located at 3M's Maplewood Campus. 3M proposes the addition of an optional second means of compliance demonstration associated with certain physical characteristics established in Appendix G of the Title V permit. During an August 10 teleconference, representatives of the Minnesota Pollution Control Agency (MPCA) provided verbal instruction to submit this change as a major permit modification.

The project will not result in an increase in actual emissions or potential to emit of any regulated pollutants. There will not be any physical changes such as the construction of new equipment or modification of existing equipment, nor will the project result in new or changed applicability of relevant state or federal regulations.

3M is requesting issuance of the modified permit by mid-January 2021 to accommodate continuous compliance with existing requirements. An expedited review request will be submitted via email concurrently with this application submittal to achieve the requested schedule.

If you have any questions regarding this application, please contact me via phone at (651) 737-2422 or email at mkilpo@mmm.com.

Sincerely,

Matt Kilpo
Senior Environmental Engineer
3M Center, Building 270-03-S-13
St. Paul, MN 55144-1000

Application Forms

SCP-01	**Submittal Cover Page**
CH-GI-01	**Facility Information for Permit Changes**
CH-15	**SIP Changes and Permits**
CH-00	**Project Screening**
CH-01	**Change Description**
CH-02	**Action Type Determination**
CH-14	**Permit Notification and Amendment Application Requirements**
CH-03	**Major Permit Amendment Determination**
CD-01	**Compliance Plan**

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

SCP-01: Submittal cover page

Permit application/notification/ determination request fee submittal

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 7

1a) AQ Facility ID number: 12300015 1b) Agency Interest ID number: 23E

2) Facility name: 3M - R&D Facility

3) Submittal is (choose from the following options and then complete the remainder of item 3 as directed):

- ☐ The final certified (or recertified) version of a previously-submitted permit application. **Complete Section 3A.**
- ☐ Additional or supplemental information requested by permit staff during the permit-writing process. **Complete Section 3A.**
- ☐ A request that the Minnesota Pollution Control Agency (MPCA) make an applicability determination. **Complete Section 3A.**
- ☐ An application for a new Individual Part 70 or State Permit – choose **one** of the following:
  - ☐ This is the original application or replacement for a denied application – **Complete Section 3B.**
  - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is different than the incomplete application – **Complete Section 3B.**
  - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is exactly the same as in the incomplete application – **Complete Section 3E.**
- ☐ An application for reissuance of an Individual Part 70 or State Permit – choose **one** of the following:

Note: Beginning July 1, 2020, paper reissuance applications will only be accepted if there is a request for confidentiality. Otherwise for reissuances, use the MPCA's e-Services website at https://www.pca.state.mn.us/data/e-services.

  - ☐ This is the original application or replacement for a denied application – **Complete Section 3B.**
  - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is different than the incomplete application – **Complete Section 3B.**
  - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is exactly the same as in the incomplete application – **Complete Section 3B.**
- ☒ An application for an amendment to an existing Individual Part 70 or State Permit – choose **one** of the following:
  - ☒ This is the original application or replacement for a denied application – **Complete Section 3B.**
  - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is different than the incomplete application – **Complete Section 3B.**
  - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is exactly the same as in the incomplete application – **Complete Section 3E.**
- ☐ An application for a Registration Permit, Capped Permit, or General Permit – choose **one** of the following:
  - ☐ This is the original application or replacement for a denied application – **Complete Section 3C.**
  - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is different than the incomplete application – **Complete Section 3C.**
  - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is exactly the same as in the incomplete application – **Complete Section 3E.**
- ☐ An application for an administrative change to an existing Registration, Capped, or General Permit – choose **one** of the following:
  - ☐ This is the original application or replacement for a denied application – **Complete Section 3C.**
  - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is different than the incomplete application – **Complete Section 3C.**
  - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is exactly the same as in the incomplete application – **Complete Section 3E.**
- ☐ A notification required under Minn. R. 7007.1150(C); Minn. R. 7007.1250, subp. 4; Minn. R. 7007.1350; Minn. R. 7007.0800, subp. 10, item B. **Complete Section 3D.**
- ☐ A notification from a hot mix asphalt plant holding a Registration Permit of the intent to incorporate ground tear-off shingles and/or manufacturer scrap shingles in the hot mix asphalt. **Complete Section 3D.**

Section 3A – Request for applicability determination, recertification of a previously-submitted permit application, or supplement to a previously-submitted permit application

Use this section only if your submittal is one of the following:

- The final version of a previously submitted permit application, incorporating changes negotiated through the permitting process, or
- Submittal of additional or supplemental information requested by permit staff during the permit-writing process, or
- A request for the MPCA to make an applicability determination.

For final versions and supplemental information, enter the "tracking number" which can be obtained from the MPCA permit staff working on the permit.

Check one of the boxes below. Do not complete Sections 3B, 3C, 3D, or 3E. Continue with item 4 of the form.

Choose one of the following:	**Quantity**	**Points**	**Total points**
☐ Recertification of a previously-submitted permit application – tracking number: _____	NA	NA	NA
☐ Supplement to a previously-submitted permit application – tracking number: _____	NA	NA	NA
☐ An Applicability Determination Request		x 10 =	

Section 3B – Application for an Individual Part 70 or State Permit, reissuance of an Individual Part 70 or State Permit, or amendment of an Individual Part 70 or State Permit

Is this application replacing an application that was returned as incomplete (not an application that was denied)?

☒ No ☐ Yes Enter the tracking number of the incomplete application being replaced: _____.

Check as many of the boxes below as apply. If your submittal also includes notifications that do not require a permit application, also complete Section 3D. Then continue with item 4 of the form.

Choose one of the following:	**Quantity**	**Points**	**Total points**
☐ Application for an Individual Part 70 Permit		x 75 =	
☐ Application for an Individual State Permit		x 50 =	
☐ Application for reissuance of an expiring Individual Part 70 or State Permit (does not include modifications to a permit that require an amendment) **Note:** Beginning **July 1, 2020**, paper reissuance applications will only be accepted if there is a request for confidentiality.			
Expiration date: _____ *(mm/dd/yyyy)* Application due date (180 days prior to expiration): _____ *(mm/dd/yyyy)*	NA	NA	NA
☒ Application for a major amendment to an Individual State or Part 70 Permit ☐ Includes reconstruction or modification of a New Source Performance Standards (NSPS) Affected Facility not subject to New Source Review	1	x 25 =	25
☐ Application for a moderate amendment to an Individual State or Part 70 Permit		x 15 =	
☐ Application for a minor amendment to an Individual State or Part 70 Permit		x 4 =	
☐ Application for an administrative amendment to an Individual State or Part 70 Permit Application will be denied if you were not instructed to use the physical forms application process.		x 1 =	

Additional information (check all that apply):

☐ Submittal was preceded by pre-application work with the MPCA (for example: dispersion modeling or modeling protocol review, Air Emission Risk Analysis (AERA) review, environmental review). The tracking number associated with the preapplication work is: _____

☐ Permit will replace an existing permit of a different type (e.g., replacing a Capped Permit with an Individual State Permit, or replacing a Part 70 General Permit with an Individual Part 70 Permit).

☐ Permit is for construction of a new facility.

☐ Permit is required because of a modification to an existing facility, making the facility subject for the first time for the requirement for an Air Emission Permit.

☐ Project is subject to Prevention of Significant Deterioration (PSD) (40 CFR § 52.21). Send a complete copy of the application to U.S. Environmental Protection Agency (EPA) Region V (see instructions).

☐ Permit is required because of installation or modification of a Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP) and/or a Part 60 NSPS Affected Facility at a Stationary Source with Potential-to-Emit below all permit thresholds (Minn. R. 7007.0500, subp. 2.C.(1)).

Section 3C – Application for a Registration, Capped, or General Permit

Is this application replacing an application that was returned as incomplete (not an application that was denied)?

☐ No ☐ Yes Enter the tracking number of the incomplete application being replaced: _____.

Check as many of the boxes below as apply. Continue with item 4 of the form.

Choose one of the following:	Quantity	Points	Total points
☐ Application for a Registration Permit ☐ Option A ☐ Option B ☐ Option C ☐ Option D		x 2 =	
☐ Application for a Capped Permit ☐ Option 1 ☐ Option 2		x 4 =	
☐ Application for a Part 70 General Permit ☐ Manufacturing General Permit ☐ Low Emitting Facility General Permit		x 4 =	
☐ Application for a State General Permit ☐ Nonmetallic Mineral Processing General Permit		x 3 =	
☐ Application for an administrative change to an existing Registration, Capped, or General Permit (e.g., change of facility ownership)		x 1 =	

Additional information (check all that apply):

☐ Permit will replace an existing permit of a different type (e.g., replacing a Registration Permit with a Capped Permit; replacing an Option B Registration Permit with an Option D Registration Permit; etc.)

☐ Permit is required for construction of a new facility

☐ Permit is required because of a modification to an existing facility, making the facility subject for the first time for the requirement for an Air Emission Permit.

☐ Permit is required because of a modification or change making the facility ineligible for its existing Air Emission Permit.

Section 3D – Notifications

If your submittal also includes a permit application, then also complete Section 3A, 3B, 3C, or 3e as applicable. Check all applicable boxes below, then continue with item 4 of the form.

☐ A notification of accumulated insignificant activities (Minn. R .7007.1250, subp. 4)

☐ A notification of installation of pollution control equipment (Minn. R. 7007.1150, item C)

☐ A notification of replacement of a unit (Minn. R. 7007.1150, item C)

☐ A notification of replacement of controls with listed controls (Minn. R. 7007.1150, item C)

☐ A notification of changes that contravene a permit term (Minn. R .7007.1350)

☐ A notification from a hot mix asphalt plant including a request to incorporate ground tear-off shingles and/or manufacturer scrap shingles in the hot mix asphalt (applies to Registration Permits) Minn. R. 7011.0913, subp. 3)

Section 3E – Replacement for an incomplete application where the project scope is unchanged

Enter the tracking number of the incomplete application being replaced: _____.

Check one option under “i" and one option under “ii”. Calculate the points’ difference in “iii”. Check all that apply under “iv.” Then continue with item 4 of the form.

i. Choose one of the following describing this application:	Quantity	Points	Total points
☐ Application for an Individual Part 70 Permit		x 75 =	
☐ Application for an Individual State Permit		x 50 =	
☐ Application for a major amendment to an Individual State or Part 70 Permit ☐ Includes reconstruction or modification of a NSPS Affected Facility not subject to New Source Review		x 25 =	
☐ Application for a moderate amendment to an Individual State or Part 70 Permit		x 15 =	

i. **Choose one of the following describing this application:**	Quantity	Points	Total points
☐ Application for a minor amendment to an Individual State or Part 70 Permit		x 4 =	
☐ Application for an administrative amendment to an Individual State or Part 70 Permit. Application will be denied if you were not instructed to use the physical forms application process.		x 1 =	
☐ Application for a Registration Permit ☐ Option A ☐ Option B ☐ Option C ☐ Option D		x 2 =	
☐ Application for a Capped Permit ☐ Option 1 ☐ Option 2		x 4 =	
☐ Application for a Part 70 General Permit ☐ Manufacturing General Permit ☐ Low Emitting Facility General Permit		x 4 =	
☐ Application for a State General Permit ☐ Nonmetallic Mineral Processing General Permit		x 3 =	
☐ Application for an administrative change to an existing Registration, Capped, or General Permit (e.g., change of facility ownership)		x 1 =	

ii. **Choose one of the following describing the incomplete application being replaced:**	Quantity	Points	Total points
☐ Application for an Individual Part 70 Permit		x 75 =	
☐ Application for an Individual State Permit		x 50 =	
☐ Application for a major amendment to an Individual State or Part 70 Permit		x 25 =	
☐ Application for a moderate amendment to an Individual State or Part 70 Permit		x 15 =	
☐ Application for a minor amendment to an Individual State or Part 70 Permit		x 4 =	
☐ Application for an administrative amendment to an Individual State or Part 70 Permit		x 1 =	
☐ Application for a Registration Permit ☐ Option A ☐ Option B ☐ Option C ☐ Option D		x 2 =	
☐ Application for a Capped Permit ☐ Option 1 ☐ Option 2		x 4 =	
☐ Application for a Part 70 General Permit ☐ Manufacturing General Permit ☐ Low Emitting Facility General Permit		x 4 =	
☐ Application for a State General Permit ☐ Nonmetallic Mineral Processing General Permit		x 3 =	
☐ Application for an administrative change to an existing Registration, Capped, or General Permit (e.g., change of facility ownership)		x 1 =	

iii. (Points from part i: _____) – (Points from part ii: _____) = Total points for Section 3E. →

If the number is negative (e.g., the number from "ii" is larger than the number from "i', enter "0").

iv. Additional information (check all that apply):

☐ Submittal was preceded by pre-application work with the MPCA (for example: dispersion modeling or modeling protocol review, AERA review, environmental review). The tracking number associated with the preapplication work is: _____

☐ Permit will replace an existing permit of a different type (e.g., replacing a Capped Permit with an Individual State Permit, or replacing a Part 70 General Permit with an Individual Part 70 Permit)

☐ Permit is for construction of a new facility.

☐ Permit is required because of a modification to an existing facility, making the facility subject for the first time for the requirement for an Air Emission Permit.

☐ Project is subject to PSD (40 CFR § 52.21). Send a complete copy of the application to EPA Region V (see instructions).

☐ Permit is required because of installation or modification of a Part 61 NESHAP and/or a Part 60 NSPS Affected Facility at a Stationary Source with Potential-to-Emit below all permit thresholds (Minn. R. 7007.0500, subp. 2.C.(1)).

4) Total points ("total points" from Section 3A, 3B, 3C, or 3E part iii)

25

5) Total application fee

25 (total points from item 4) x $285 = $ 7125 (fee amount)

The application fee amount is $285 per point, payable to the MPCA. Send your payment ("fee amount") with your submittal. The fee is not refundable, per Minn. R. 7002.0016, subp. 1. There may be additional fees assessed during processing of your request, as required by Minn. R. ch. 7002.

Note: If an application is resubmitted for a different type of amendment or permit, the original fee is not refundable nor transferable. The resubmitted application fee must be paid in full.

6a) Confidentiality statement

☒ This application does not contain material claimed to be confidential under Minn. Stat. §§ 13.37, subd. 1(b) and 116.075. Skip item 6b, go to item 7.

☐ This application contains material which is claimed to be confidential under Minn. Stat. §§ 13.37, subd. 1(b) and 116.075. Complete Item 6b. Your submittal must include both Confidential and Public versions of your application.

Registration Permit applicants may not claim any portion of their application as confidential. If applying for a Registration Permit or an administrative change to a Registration Permit, you must check the first box above ("This application does not contain…..").

☐ Confidential copy of application attached ☐ Public copy of application attached

6b) Confidentiality certification

To certify data for the confidential use of the MPCA, a responsible official must read the following, certify to its truth by filling in the signature block on the following page, and provide the stated attachments.

☐ I certify that the enclosed permit application(s) and all attachments have been reviewed by me and do contain confidential material. I understand that only specific data can be considered confidential and not the entire application or permit. I certify that I have enclosed the following to comply with the proper procedure for confidential material:

- ☐ I have enclosed a statement identifying which data contained in my application I consider confidential, and I have explained why I believe the information qualifies for confidential (or non-public) treatment under Minnesota Statutes.
- ☐ I have explained why the data for which I am seeking confidential treatment should not be considered "emissions data" which the MPCA is required to make available to the public under federal law.
- ☐ I have enclosed an application containing all pertinent information to allow for completion and issuance of my permit. This document has been clearly marked "confidential".
- ☐ I have enclosed a second copy of my application with the confidential data blacked out (not omitted or deleted entirely). It is evident from this copy that information was there, but that it is not for public review. This document has been clearly marked "public copy".

Permittee responsible official:	**Co-Permittee responsible official (if applicable)**
Print name:	Print name:
Title:	Title:
Signature:	Signature:
Date (mm/dd/yyyy):	Date (mm/dd/yyyy):

7) Submittal certification

I certify under penalty of law that the enclosed documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I also certify, in accordance with Minn. R. 7007.0500, subp. 2 (K)(2) and subp. 2 (K)(3), that I have reviewed the procedures implemented by my facility to maintain compliance and that those procedures are, to the best of my knowledge and belief, reasonable to maintain compliance with all applicable requirements, including those that will become applicable during the term of the permit.

I also certify, in accordance with Minn. R. 7007.1450, subp. 4(D), that if this application requests the use of the minor or moderate permit amendment procedures, the proposed change is not part of a larger project which, taken as a whole, would not qualify for treatment as a minor or moderate permit amendment.

Choose one of the following:

☒ I certify that no construction is associated with the permit action sought by this permit application.

☐ I certify that my project includes construction, but construction has not yet been started except as allowed under Minn. R. 7007.1110, subp. 10 or Minn. R. 7007.1250, subp. 4, and will not begin until the permit is issued except as allowed under Minn. R. 7007.1110, subp. 12; Minn. R. 7007.1142, subp. 2; Minn. R. 7007.1150, item C; or Minn. R. 7007.1450, subp. 7.

☐ My project includes construction, and construction other than what is allowed under Minnesota Rules has been started

Permittee responsible official:	**Co-Permittee responsible official (if applicable)**
Print name: Michael Lubinski	Print name:
Title: Facilities Engineering Manager	Title:
Signature: Michael Lubinski	Signature:
Date (mm/dd/yyyy): 10/13/2020	Date (mm/dd/yyyy):

8) Package submittal

Applications, notifications, and/or requests that are submitted without authorized signature(s) (under submittal certification for all applications and under confidentiality certification if you are seeking confidential treatment of any information in the application); without required forms; and/or without the required application fee, will be returned. You must submit at least one SCP-01 that bears the original signature(s) (i.e., is not a photocopy of the signed signature page). Please make your check out to the Minnesota Pollution Control Agency. Send the complete application package and check to:

Fiscal Services – 6th Floor
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

You may choose to submit your application as a "pdf" file on an electronic media, such as a compact disc (CD) or USB drive. If you choose this option, you must still include a paper copy of any form that requires a signature.

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

CH-GI-01

Facility information for permit changes
Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 3

1a) AQ Facility ID number: 12300015 **1b)** Agency Interest ID number: 23E

2) Facility name: 3M - R&D Facility - Maplewood Building 201

3) Facility location

Street address: I-94 & McKnight Rd

City: Maplewood County: Ramsey Zip code: 55144

Note: If the facility is or will be located within the city limits of Minneapolis, attach a map showing the exact location.

Mailing address: 3M Company, 3M Center
Bldg. 224-5W-03

City: St. Paul State: MN Zip code: 55144-1000

4) Corporate/Company Owner

Name: 3M Company

Mailing address: 3M Company, 3M Center
Bldg. 224-5W-03

City: St. Paul State: MN Zip code: 55144-1000

Owner Classification: ☒ Private ☐ Local Govt. ☐ State Govt. ☐ Federal Govt. ☐ Utility

5) Corporate/Company Operator (if different than owner)

Name:

Mailing address:

City: State: Zip code:

6) Co-permittee (if applicable)

Name:

Mailing address:

City: State: Zip code:

7) Legally responsible official for this permit/facility

Mr/Ms: Michael Lubinski Phone: 651-231-1329

Title: Facilities Engineering Manager Fax: please email

At (check one): ☐ Owner Address ☐ Operator Address ☐ Emission Facility Address

☒ Other (specify): 3M Company, 3M Center, Bldg. 216-3S-15, St. Paul, MN 55144-1000

Email address: malubinski@mmm.com

8) Contact person for this permit

Mr/Ms: Mr. Matt Kilpo Phone: 651-737-2422

Title: Senior Environmental Engineer Fax: please email

At (check one): ☐ Owner Address ☐ Operator Address ☐ Emission Facility Address

☒ Other (specify): 3M Company, 3M Center Bldg 270-3S-13, St. Paul MN 55144

Email address: mjkilpo@mmm.com

9) All billings for annual fees should be addressed to:

Mr/Ms: Mr. Matt Kilpo Phone: 651-737-2422

Title: Senior Environmental Engineer Fax: please email

At (check one): ☐ Owner address ☐ Operator address ☐ Emission facility address

☒ Other (specify): 3M Company, 3M Center, Bldg 270-3S-13, St. Paul MN 55144

Email address: mjkilpo@mmm.com

10) Standard Industrial Classification (SIC) Code and description**, and North American Industry Classification System (NAICS) code and description** for the facility:

Primary:	8731	/	Laboratories, research: commercial
Secondary (if applicable):	2672	/	Coated & Laminated Paper
Tertiary (if applicable):		/	
Primary NAICS code:		/	

11) Primary product produced (or activity performed) at the facility is:

Commercial research and development laboratories

12) Facility is: ☒ Stationary ☐ Portable

13) (reserved for future use)

14) Is environmental review required (either an Environmental Assessment Worksheet (EAW) or an Environmental Impact Statement (EIS)) for this facility?

☒ No ☐ Yes -- you may also be required to perform a state air toxics review for your facility. Please call 1-800-657-3864 or locally 651-296-6300.

15) Are you (or will you be, if this is a new facility) required to submit a Toxics Release Inventory (Form R) under SARA Title 313 for this facility? Contact the Minnesota Emergency Planning and Community Right-to-Know Act (EPCRA) Program for more information, at 651-201-7400.

☐ Yes – Answer Question 15a ☒ No – Go on to Question 16

15a) Are you required to submit a Pollution Prevention Plan Progress Report in accordance with Minn. Stat. § 115D.08?

☐ No ☐ Yes, and the most recently required progress report has been submitted

☐ Yes, but a progress report has not been submitted because (fill in reason below):

16) Is this facility within 50 miles of another state or the Canadian border?:

☒ Yes (specify which ones) WI ☐ No

17) Are you proposing any alternative operating or emissions trading scenarios in this application? (see Minn. R. 7007.0800, subp. 10 and 11)

☒ No ☐ Yes - attach a description of your proposal, including a statement on how the proposal will meet all applicable requirements (specifically, please address any applicable New Source Review requirements - see Form CH-04).

18) Person preparing this permit application:

Mr./Ms. Mr. Matt Kilpo

Title: Senior Environmental Engineer

Phone: 651-737-2422 Fax: please email Date: October 7, 2020

Email address: mjkilpo@mmm.com

Instructions for form CH-GI-01

1a) **AQ Facility ID number --** Fill in your Air Quality (AQ) Facility Identification (ID) number. This is the first eight digits of the permit number for all permits issued under the Title V operating permit program. If your facility has never been issued a permit under this program, leave this line blank.

1b) **Agency Interest ID number --** Fill in your Agency Interest ID number. This is an ID number assigned to your facility through the Tempo database. If you don't know this number, leave this line blank.

2) **Facility name --** Enter your facility name as it will appear on your permit.

3) **Facility location --** Fill in the facility's street address and the city and county where the facility is located. Also indicate the facility's mailing address. You may use a P.O. Box number for the mailing address, but not for the street address. If the facility is or will be located within the limits of the city of Minneapolis, include a map showing the exact location of the facility.

4) **Corporate/Company Owner --** Fill in the owner name and mailing address. The owner receives the air emission permit from the Minnesota Pollution Control Agency (MPCA). The owner is the "Permittee". Check the one "owner classification box" that most closely describes your facility.

5) **Corporate/Company Operator (if different from owner) --** The operator runs the facility on a day-to-day basis. If a management company operates the facility, its name goes here. The operator is also a "Permittee". Fill in if applicable; if not, fill in "N/A".

6) **Co-permittee (if applicable) --** If the emission facility has more than one owner, for example a partnership, then the second owner's name and address go here. Another example is two facilities, owned separately, where one facility exists to support the other; both facilities are subject to one permit and the two owners are considered co-permittees.

7) **Legally Responsible Official** -- Fill in the name, title, phone number, fax number (if applicable), and email address of the Legally Responsible Official. For the purpose of Form CH-GI-01, the Legally Responsible Official must be a person meeting the criteria for signing the application (defined in Minn. R. 7007.0100, subp. 21), which is the person who performs policy or decision making functions for the company. (A delegate may be allowed in some cases. Please refer to the rule section listed above.) Indicate which address applies to this person by checking the appropriate box.

8) **Contact person for this permit --** Fill in the name, title, phone number, fax number (if applicable), and email address of the individual to whom the permit and other permitting correspondence should be sent. Indicate which address applies to this person by checking the appropriate box. Include the e-mail address at which the contact person can be reached.

9) **All billings and annual fees should be addressed to --** Fill in the name, title, phone number, fax number (if applicable), and email address of the individual to whom the annual emissions inventory and emissions fee billing should be sent. Indicate which address applies to this person by checking the appropriate box.

10) **Standard Industrial Classification (SIC) Code and description, and North American Industry Classification System (NAICS) Code and description for the facility --** Fill in the primary (and secondary and tertiary if applicable) 4-digit SIC code(s) for the facility. A single stationary source may have more than one SIC code. For example, if a facility makes cardboard boxes, the facility would have a primary SIC code of 2653. If the facility also prints on some of its boxes, it would have a secondary SIC code of 2752.

Additional SIC information may be obtained from libraries, accounting firms or from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161 (order number PB 87-1000012).

Fill in the primary six digit NAICS Code and description for the facility. Additional information may be obtained at http://www.naics.com/ or http://www.census.gov/epcd/www/naics.html.

11) **Primary product produced (or activity performed) at the facility is --** Indicate the primary product or activity of your business.

12) **Facility is (stationary or portable) --** Indicate whether the facility is a stationary or a portable source. A portable facility is one that operates and moves from site to site. Examples of portable facilities are some asphalt plants and sand and gravel plants.

13) **(Reserved for future use) 14) -- Is an environmental review required [either an Environmental Assessment Worksheet (EAW) or an Environmental Impact Statement (EIS)] as a result of the proposed changes ? -- You must complete all the other applicable forms in this package before you can answer this question.** Environmental review is sometimes required prior to construction or modification of a facility. Check the MPCA's Environmental Review Web page at http://www.pca.state.mn.us/programs/envr_p.html, or call the Minnesota Environmental Quality Board at 651-201-2476 for more information. Put a check in the appropriate box of the application form.

Note: If you answered "yes" to this question and if you emit any hazardous air pollutants, you may also be required to perform an Air Emissions Risk Assessment (AERA). Go to http://www.pca.state.mn.us/air/aera.html or call 800-657-3864 or 651-296-6300 for more information.

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

1a) AQ Facility ID number: 12300015 8 digit number 1b) Agency Interest ID number: 23E 10 digit number

2) Facility name: 3M - R&D Facility

Section I

I.1 Does your facility have source specific State Implementation Plan (SIP) conditions contained in a Part 70 permit or a federally enforceable state operating permit **or** has your facility been issued an Administrative Order (Order) to ensure compliance with a national ambient air quality standard (NAAQS)? (This would include permit conditions labeled "Title I condition: SIP for [pollutant] NAAQS"). If your facility is listed in Table 1 below, you have source specific SIP conditions.

☐ Yes. Check all applicable pollutants and continue with Section II.

- ☐ Sulfur Dioxide (SO_2)
- ☐ Particulate matter less than 10 microns (PM_{10})
- ☐ Lead

☒ No. **Stop here**, and submit this form with your application for a permit amendment or operating permit reissuance.

Section II

II.1 Where are the SIP conditions that apply to your facility?

- ☐ In the current operating permit
- ☐ In the Order
- ☐ In both the current operating permit and the Order

II.2 This permit application is for

- ☐ Reissuance of the operating permit
- ☐ An amendment to the current operating permit

Whether you are proposing changes through an application for a facility modification, or if you are submitting a reissuance application and there have been changes at your facility that are not included in the current operating permit or the Order, complete the rest of this form considering those changes as the 'proposed change.' If your facility is subject to the Order, Minnesota Pollution Control Agency (MPCA) will initiate a SIP revision to transfer the Title I conditions from the Order to the Permit.

II.3 Does the proposed change involve equipment or operating parameters that are subject to a Title I SIP condition in your permit or a requirement from your Order?

- ☐ Yes
- ☐ No

II.4 Does the proposed change add an emission unit(s) or stack/vent that will emit the criteria pollutant(s) identified in Section I?

- ☐ Yes
- ☐ No

II.5 Does the proposed change increase the emission rate of the criteria pollutant(s) at any of the existing emission points (emission unit, control equipment or stack/vent)?

- ☐ Yes
- ☐ No

II.6 Does the proposed change increase the overall emission rate of that criteria pollutant at the facility?

- ☐ Yes
- ☐ No

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

CH-00

Project Screening
Air Quality Permit Program

Doc Type: Permit Application

AQ Facility ID number: 12300015 Agency Interest ID number: 23E

Facility name: 3M - R&D Facility

Instructions: Fill out this form last, after you've determined the type of permit you need.
Check **all** applicable boxes on this form that describe your proposed project and your facility.

Applicable analyses:

☐ My project requires Environmental Review (Use the Environmental Review Pre-Screening Form, available at https://www.pca.state.mn.us/quick-links/environmental-review, to determine this)

☐ Environmental Assessment Worksheet ☐ Environmental Impact Statement

Submitted to (who?): _____ on (date mm/dd/yyyy): _____

☐ My project requires a Prevention of Significant Deterioration (PSD) permit, utilizes the Plant-wide Applicability Limit requirements of 40 CFR § 52.21, and/or involves a Best Available Control Technology (BACT) Analysis (either a new analysis or revisions to previous permit conditions).

☐ My project involves a case-by-case Maximum Achievable Control Technology (MACT) determination under section 112(g)(2)(B) of the Clean Air Act Amendments of 1990 as described on form CH-07.

☐ My project involves a site-specific alternative monitoring request under 40 CFR § 60.13(i) or 40 CFR § 63.8(f).

☐ My project involves changes to limits or requirements that are identified as State Implementation Plan (SIP) requirements in my permit or Administrative Order. (Use Form CH-15 to determine this.)

☐ My project involves ambient air dispersion modeling for criteria pollutants.

Modeling protocol was approved on (date mm/dd/yyyy): _____

Modeling results submitted to (who?): _____ on (date mm/dd/yyyy): _____

☐ Modeling follows protocol exactly ☐ Modeling mostly follows protocol but with minor changes

☐ My project involves an Air Emissions Risk Analysis (AERA).

Submitted to (who?): _____ on (date mm/dd/yyyy): _____

☐ My project requires at least one other media permit in addition to an air permit (list permits: e.g., National Pollutant Discharge Elimination System [NPDES] permit).

_____

Application submitted to (who?): _____ on (date mm/dd/yyyy): _____

☒ None of the above

Industry sector:

☐ Petroleum refining
☐ Pulp and/or paper mill
☐ Composite wood products (e.g., OSB)
☐ Metallic mining
☐ Non-beverage ethanol production
☐ Waste combustor
☐ Electric utility
☒ None of the above

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

CH-01

Change Description
Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 2

Instructions: Provide below a description of each physical and operational change, or proposed change to existing permit conditions, included in this application. This includes addition of new units, removal or replacement of existing units, or changes which may result in debottlenecking of emission units. Use form CH-02 to determine if a permit amendment is required for your proposed change or modification.

1a) AQ Facility ID number: 12300015 **1b)** Agency Interest ID number: 23E

2) Facility name: 3M - R&D Facility

3) Does your project involve any of the following? Check all that apply.

- ☐ Construction or physical change.
- ☐ Increase in production.
- ☐ Other operational change.
- ☐ Fuel change.
- ☒ None of the above. Go to question 5.

4) Does your project involve the addition or modification of a non-emergency generator?

- ☐ No.
- ☐ Yes. You must conduct screening modeling for the generator or group of generators. See instructions.

5) Do you need your permit issued by a certain date?

- ☐ No.
- ☒ Yes. Date (mm/dd/yyyy): 1/12/2021

Reason:

To accommodate continuous compliance with existing requirements.

3M will be submitting Form EXP-01 to request an expedited project review to achieve this permitting schedule.

6) Complete and attach form CD-01 to specify which applicable requirements need to be added to or deleted from your permit unless the application is for a change in ownership, a change in facility name, or an extension of a deadline by no more than 120 days. The deadline must be one which Minnesota Pollution Control Agency (MPCA) has authority to extend. If the application is only for a change in ownership, a change in facility name, or an extension of a deadline by no more than 120 days, form CD-01 does not need to be included. Instead, include this information in the description below.

7) Description of proposed project, including details of all changes indicated in question 3:

3M is submitting this major amendment permit application to modify certain compliance demonstration requirements related to spray booths associated with certain physical characteristics established in Appendix G of the recently issued Title V Permit 12300015-102. The MPCA informed 3M during an August 10 teleconference that a major amendment application will need to be submitted to accommodate this change. The project will not involve the construction of new equipment nor modification of existing equipment, result in an increase in actual emissions or potential to emit of any regulated pollutants, or result in new or changed applicability of relevant state or federal regulations

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

CH-02

Action type determination

Air Quality Permit Program

Doc Type: Permit Application

1a) AQ Facility ID number: 12300015 **1b)** Agency Interest ID number: 23E

2) Facility name: 3M - R&D Facility

Answer the questions on this form, referring to and completing the additional forms as directed, to determine if a permit or amendment is required (and if so what type), or if a notification is required.

3. Does the change consist only of a change in facility ownership or operational control, facility ownership name, or facility name?

☒ No. Go to question 4.

☐ Yes. Use the Minnesota Pollution Control Agency (MPCA) e-Services for an administrative amendment (found on the MPCA website at https://www.pca.state.mn.us/data/e-services). Physical applications received for an administrative amendment will be denied.

4. Does the change consist only of the extension of a deadline by no more than 120 days? The deadline must be one which MPCA has authority to extend, or the answer to this question must be "no."

☒ No. Go to question 5.

☐ Yes. Use MPCA's e-Services for an administrative amendment (found on the MPCA website at https://www.pca.state.mn.us/data/e-services). Physical applications received for an administrative amendment will be denied.

5. Does the proposed change or modification require a major amendment? To answer this question, use form CH-03 and all forms referenced therein. Include these forms in your submittal, unless otherwise noted on form CH-12 or CH-09, if applicable.

☒ Yes. The proposed change consists only of amending existing permit requirements related to **monitoring, reporting, or recordkeeping** as shown by item 2 on form CH-03. Go to question 12.

☐ Yes. The proposed change is a major amendment as indicated by one or more questions for items 3 through 9 on form CH-03. Go to question 10.

☐ No. Go to question 6.

6. Does the entire proposed change or modification consist **only** of insignificant activities described in Minn. R. 7007.1300, subparts 2 and/or 3, and/or conditionally insignificant activities in compliance with Minn. R. 7008,4000 to 7008.4110?

☐ Yes. The proposed change qualifies as an insignificant modification under Minn. R. 7007.1250, subp. 1.A. No permit amendment is needed to make the change, and you are done with this form. If the modification triggers new monitoring, record keeping, or reporting requirements under applicable requirements or Minn. R. 7007.0100 to 7007.1850, then you must initiate an administrative amendment under Minn. R. 7007.1400 to include the new requirements no more than 30 days after making the modification. Use MPCA's e-Services for an administrative amendment (found on the MPCA website at https://www.pca.state.mn.us/data/e-services). Physical applications received for an administrative amendment will be denied unless specifically instructed within the MPCA e-Service.

If the proposed change also meets the conditions of Minn. R. 7007.1250, subp. 4, then you must notify the MPCA using form CH-12.

☐ No. Part of the project is not one of the listed insignificant activities listed in Minn. R. 7007.1300, subp. 2 and/or 3 or the conditionally insignificant activities listed in Minn. R. 7008.4000 to 7008.4110. Go to question 7.

7. Can the change be done through an administrative amendment? You **may** apply for an administrative amendment for several other reasons not listed above. These reasons are listed in Minn. R. 7007.1400, subp. 1.

☐ Yes. Use MPCA's e-Services for an administrative amendment (found on the MPCA website at https://www.pca.state.mn.us/data/e-services). Physical applications received for an administrative amendment will be denied.

☐ No. Go to question 8.

8. Can the change be made through the "contravening permit terms" provision? Use form CH-09 to determine Yes or No.

☐ Yes. Include form CH-09 in your submittal. Proceed to question 12.

☐ No. Go to question 9.

9. Is a minor or moderate amendment needed? Complete form CH-10 to determine Yes or No.

☐ Yes. Include form CH-10 in your submittal. Go to question 10.

☐ No. Complete form CH-12 to determine what notification or recordkeeping requirements apply. Proceed to question 12.

10. Complete form CH-11 to determine your status with regard to crossing permit thresholds, and indicate that status below.

☐ This change can be made through the permit amendment provisions of Minn. R. 7007.1450 or 7007.1500. Include form CH-11 in your submittal. Proceed to question 11.

☐ This change requires issuance of a Title V or State operating permit. Submit a completed *Total facility application*. You are done with this form.

11. Complete form CH-13 to determine what state rules apply to the equipment you are adding or the changes you are proposing, and include form CH-13 in your submittal. Then proceed to question 12.

12. In addition to this form and any forms you were instructed herein to include in your submittal, complete and submit form CH-14 and any other forms or information as directed on form CH-14.

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

CH-14

Permit notification and amendment application requirements

Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 4

1a) AQ Facility ID number: 12300015 1b) Agency Interest ID number: 23E

2) Facility name: 3M - R&D Facility

3) Minn. R. 7007.0600 describes what a permit application must include. The items in the following list constitute an administratively complete application, but do not necessarily mean that the application is technically complete for the purpose of taking final permit action. Please complete the following to verify that you have included all the indicated forms and information.

Included	Not included	Form/Requirement	When required
☒		SCP-01 Submittal cover page with original signature	Always
☒		CH-GI-01 Facility information	Always
☒		CH-15 SIP Changes and permits	Always
☒		CH-00 Project screening	Always
☒		CH-01 Change description	Always
☒		CH-02 Action Type determination	Always
☒		CH-14 Permit notification and amendment application requirements	Always
☒	☐	CH-03 Major permit amendment determination	When indicated on CH-02, CH-12, or CH-09
☐	☒	CH-04 Determination of New Source Review (NSR) status	As directed on CH-03
☐	☒	CH-04a Determination of increases at major sources	As directed on form CH-04
☐	☒	CH-04b Determination of increases at minor sources	As directed on form CH-04
☐	☒	CH-04c Determination of greenhouse gas status under NSR	As directed on CH-03
☐	☒	CH-04d Calculating the Net Emissions Increase Under NSR	As directed on form CH-04a
☐	☒	CH-04e Required elements for Prevention of Significant Deterioration (PSD) permit application	As directed on form CH-04b or CH-04d
☐	☒	Best available control technology analysis	When the proposed change or modification is major under NSR
☐	☒	CH-05 Applicability of New Source Performance Standards (NSPS)	As directed on CH-03
☐	☒	Highlighted copy of applicable subpart(s) of 40 CFR pt. 60, including subpart A	When so indicated on CH-05
☐	☒	CH-06 Applicability of Part 61 National Emission Standards for Hazardous Air Pollutant Sources (NESHAP)	As directed on CH-03

Included	Not included	Form/Requirement	When required
☐	☒	Highlighted copy of applicable subpart(s) of 40 CFR pt. 61, including subpart A	When so indicated on CH-06
☐	☒	CH-07 Applicability of Part 63 NESHAP	As directed on CH-03
☐	☒	Highlighted copy of applicable subpart(s) of 40 CFR pt. 63, including subpart A	When so indicated on CH-07 or CH-08
☐	☒	CH-11 Crossing permit thresholds	When indicated on CH-02. Make sure your proposed change qualifies for amendment of your existing permit, or as an I/O permit under Minn. R. 7007.0750, subp. 5.
☐	☒	CH-13 Applicability of State Rules	When indicated on CH-02
☒	☐	CD-01 Compliance plan	For all applications for a major, moderate, or minor amendment, or when directed to on CH-01 for administrative amendments, or when indicated on CH-12.
☐	☒	GI-07 Facility emissions summary	For all amendment applications, except when there are no emission changes, or when using the GI-07 spreadsheet in place of form GI-07
☐	☒	GI-07 Spreadsheet - facility emissions summary	When using the GI-07 spreadsheet in place of form GI-07
☐	☒	Editable electronic spreadsheet containing all calculations	Whenever GI-07 or CH-04c is required. If submitting the application electronically (“pdf” on a CD or USB drive), you must include the editable spreadsheet(s) on the CD or USB drive. If submitting the application on paper, you must also include a CD or USB drive of the editable electronic spreadsheet(s) with the application.
☐	☒	Emission calculation printouts (if submitting application electronically as a “pdf” document then the emission calculations must be a part of the the pdf document; if submitting a paper copy of the application, then the emission calculations must be printed on paper as part of the application. Example calculations must also be included.)	Whenever GI-07 or CH-04c is required.
☐	☐	HG-01 Mercury releases to ambient air	If the permit will authorize an increase in mercury emissions (construction of a new facility that will emit mercury, or modification of an existing facility resulting in additional mercury emissions), AND the potential mercury emissions from the entire facility already are or will be (after the proposed change) three (3) or more pounds per year,
☐	☒	GI-09H Requirements: Compliance Assurance Monitoring (CAM)	When adding or changing control equipment or controlled emission units at a Part 70 source
☐	☒	CAM Plan	When indicated on GI-09H
☐	☒	GI-09K Requirement: Cross-State Air Pollution Rule	If the permit will authorize construction or modification of a stationary fossil-fuel-fired boiler or combustion turbine at your stationary source serving at any time, on or after January 1, 2005, a generator with a nameplate capacity of more than 25 megawatt electric producing electricity for sale.
☐	☒	EMS-00 EMS Permit qualification	When proposing to incorporate Environmental Management System (EMS) provisions

Included	Not included	Form/Requirement	When required
☐	☒	CH-10 Applicability of minor or moderate amendment process	When applying for a moderate or minor amendment
☐	☒	CH-08 Administrative amendment determination	When applying for an administrative amendment other than for a change in facility name, ownership, or ownership name. Physical applications received for an administrative amendment will be denied unless specifically instructed within the Minnesota Pollution Control Agency (MPCA) administrative other e-Service to use physical/paper forms
☐	☒	CH-09 Contravening permit terms	When proposing contravening permit terms
☐	☒	CH-12 Written notification form	When proposing changes that do not require a permit amendment, other than those covered by contravening permit terms
☐	☒	IA-01 Insignificant activities list	When the proposed change or modification includes changes to insignificant activities
☐	☒	GI-02 Process flow diagram	When the proposed change or modification includes changes to the process flow, including removing or adding new emission units, control devices, stacks/vents, tanks, or fugitive sources
☐	☒	Separate sheet showing revised process flow	When the process flow diagram is not drawn directly on form GI-02
☐	☒	GI-03 Facility and stack/vent diagram	When proposed change or modification includes changes to the stack/vent diagram, including removing or relocating existing stack/vents, or adding new stack/vents
☐	☒	Separate sheet showing revised stack/vent diagram	When the stack/vent diagram is not drawn directly on form GI-03
☐	☒	GI-04 Stack/Vent information	When adding or changing stack/vents
☐	☒	GI-05A Pollution control equipment information	When adding or changing control equipment
☐	☒	CD-05 Compliance plan for control equipment (or marked-up permit page(s) for a specific control device when only making changes to operating parameter values of existing control equipment)	When adding or changing control equipment
☐	☒	CR-02 Hood certification	When adding or changing emission units venting to control equipment through an existing hood (not required for total enclosures)
☐	☒	GI-05B Emission unit information	When adding, replacing, or changing emission units, or adding or replacing a control device controlling an emission unit
☐	☒	GI-05C Tank information	When adding,replacing, or changing storage tanks, or adding or replacing a control device controlling a tank
☐	☒	GI-05D Fugitive emission source information	When adding, replacing, or changing fugitive sources, or adding or replacing a control device controlling a fugitive source
☐	☒	GI-05E Group information	When adding, replacing, or removing subject items in a permit group, including emission units, control equipment, monitors, stacks, etc., or when adding or deleting groups within a permit
☐	☒	GI-05F Emission source associations	When adding, replacing, or changing emission units, tanks, fugitive sources, or control equipment
☐	☒	ME-01 Continuous monitoring system information	To describe new, removed, or changed continuous monitoring systems

Included	Not included	Form/Requirement	When required
☐	☒	ME-02 Monitor associations	When adding, replacing, or changing continuous monitoring systems
☐	☒	PAL-01 PAL cover page	When requesting a new Plantwide Applicability Limit (PAL) under NSR
☐	☒	PAL-02 Determination of plantwide applicability limit for major NSR sources	When requesting a new PAL under NSR
☐	☒	MI-01 Building and Structure Information	When adding or changing buildings/structures
☐	☒	MI-02c Modeling for plantwide applicability limitations	When requesting a new PAL under NSR
☐	☒	EC-03 IC Engine screen modeling	When adding or changing a non-emergency generator
☐	☒	Application for reissuance of Title V or expiring state operating permit submitted ☐ required ☒ not required	If the expiration date of the operating permit has passed or will have passed by the time the requested permit amendment has been issued, Under Minn. R. 7007.0400, subp. 2, an application for reissuance of the operating permit is required 180 days prior to the expiration date of the permit.
☐	☒	Environmental Assessment worksheet (EAW) submitted ☐ required ☒ not required	Use the *Environmental review pre-screening* form, available on the MPCA website at https://www.pca.state.mn.us/quick-links/environmental-review under the "Getting Started" section, to determine this.
☐	☒	Air Emission Risk Analysis submitted (AERA) submitted ☐ required ☒ not required	An AERA will likely be needed if there is an increase of any criteria pollutant by 250 tons per year or more. An AERA may also be required on a case-by-case basis. See the MPCA website at http://www.pca.state.mn.us/index.php/air/air-monitoring-and-reporting/air-emissions-modeling-and-monitoring/air-emission-risk-analysis-aera/air-emissions-risk-analysis-aera.html
☐	☒	Dispersion modeling submitted ☐ required for: ☐ EAW ☐ AERA ☐ PSD ☐ Case-by-case/Other, specify: _____ ☒ not required	• If an AERA is needed, or • If the project is subject to PSD (unless the only pollutant involved is a Volatile Organic Compound), or • As required on a case-by-case basis. See the MPCA website at http://www.pca.state.mn.us/index.php/air/air-monitoring-and-reporting/air-emissions-modeling-and-monitoring/air-dispersion-modeling/index.html

Instructions for form CH-14

1a) AQ Facility ID number -- Fill in your Air Quality (AQ) Facility Identification (ID) number. This is the first eight digits of the permit number for all permits issued under Minn. R. ch. 7007.

1b) Agency Interest ID number -- Fill in your Agency Interest ID number. This is an ID number assigned to your facility through the Tempo database. If you don't know this number, leave this line blank.

2) Facility name -- Enter your facility name.

3) Complete each line of the table by checking the appropriate box, indicating that the specified form or attachment is included or not included in the application.

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

CH-03

Major permit amendment determination

Air Quality Permit Program

Doc Type: Permit Application

Instructions start on page 2

1a) AQ Facility ID number: 12300015 **1b)** Agency Interest ID number: 23E

1c) Facility name: 3M - R&D Facility

To answer the questions posed in this form, you will have to complete the additional forms referenced in the individual items.

This form refers to proposed **changes** and **modifications**. A "modification" as defined in Minn. R. 7007.0100, subp. 14, includes:

A. any change that constitutes a title I modification …; or

B. any physical change or change in the method of operation of an emissions unit, emission facility, or stationary source that results in an increase in the emission of a regulated air pollutant.

A "change" is a change to permit terms or conditions, in the absence of a modification as described above.

2) Is the proposed change an amendment to existing permit requirements related to **monitoring, reporting, or recordkeeping other than (1)** adding new requirements, **(2)** eliminating the requirements if they are rendered meaningless because they apply to emissions that will no longer occur, **(3)** eliminating requirements that are technically incorrect where the elimination does not affect the accuracy of the data generated, or **(4)** eliminating requirements for a piece of equipment that no longer exists (Minn. R. 7007.1500, subp. 1[A])?

☒ Yes. If you answer yes to this question, a major amendment is required. Use and submit form *CD-01* and/or *CD-05* to document the changes to such requirements. If the permit application will include a proposed modification as defined in Minn. R. 7007.0100, subp. 14 or another type of proposed change, go to question 3a; otherwise, you are done with this form.

☐ No. Go to question 3a.

3) Is the proposed change or modification a title I modification? It is if the answer to any of the following is "**yes**":

3a) Is the proposed change or modification subject to New Source Review? Use and submit form *CH-04*, either *CH-04a* or *CH-04b*, as applicable, and all other forms referenced therein. Submit all forms used regardless of the outcome.

☐ Yes
☐ No

3b) Is the proposed change or modification a modification or reconstruction as defined for New Source Performance Standards? Use and submit form *CH-05*. Submit form *CH-05* regardless of the outcome.

☐ Yes
☐ No

3c) Is the proposed change or modification a hazardous air pollutant modification under Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAPs)? Use form *CH-06* to make this determination and submit form *CH-06* regardless of the outcome.

☐ Yes
☐ No

3d) Is the proposed change or modification defined as construction or reconstruction of a major source under Part 63 NESHAPs? Use and submit form *CH-07*.

☐ Yes
☐ No

4) Reserved for future use.

5) Does this change or modification establish or amend any **source-specific permit condition** that is or will be based on a case-by-case determination of an emissions limit or standard, an ambient impacts analysis, visibility, or increment analysis (e.g., a modeling-based limit, the requirement to operate a specific control device for a specific emission unit, specific operating parameters for a control device, a specific control efficiency, Best Available Control Technology (BACT), Maximum Achievable Control Technology (MACT), adding a new fuel to a list of allowable fuels, etc.) (Minn. R. 7007.1500, subp. 1[B])?

☐ Yes. Use and submit form *CD-01* and/or *CD-05* to document such conditions. If you are amending existing New Source Review requirements established through a previously issued New Source Review permit (requirements from a BACT analysis, or ambient impacts, class I impacts, or additional impacts analysis), submit form *CH-04e* and appropriate supporting documentation (revised BACT, ambient impacts, class I impacts, or additional impacts analyses). If you are amending existing requirements based on a case-by-case MACT determination, please contact the MPCA for more information.

☐ No

6) Does this change or modification establish or amend any permit terms or conditions for which there is no underlying applicable requirement and that you have assumed to avoid an applicable requirement to which you would otherwise be subject? Such limits are usually synthetic minor limitations such as a limit on hours of operation. Please note that if you would like to add equipment under an existing emissions cap or limit, and the permit does not explicitly pre-authorize such additions, that is considered amending the limit or emissions cap. (Minn. R. 7007.1500, subp. 1[C]).

☐ Yes. Use and submit form *CD-01* and/or *CD-05* to document such conditions.

☐ No

7) Does this change or modification establish, amend, renew, or distribute a **Plantwide Applicability Limit** (PAL) under 40 CFR § 52.21(aa)? (This is only available to existing major sources under New Source Review.)

☐ Yes. Use and submit form *PAL-01* (and the forms referenced within *PAL-01*) and *CD-01* to document conditions. (As of the date of this form, the PAL cover page (*PAL-01*) and the form for determination of a PAL (*PAL-02*) have been completed. The remaining forms for renewal, expiration allocation, and increasing a PAL, are not yet available.)

☐ No

8) Is this change or modification subject to classification as a **major permit amendment under any *other* agency rule**?

☐ Yes If yes, please describe below.

☐ No

9) Does this change or modification seek to establish or amend a federally enforceable emission cap (such as a synthetic minor limit which limits hours of operation) which avoids classification as a part 70 source?

☐ Yes. Use and submit form *CD-01* and/or *CD-05* to document conditions.

☐ No

If you answered "Yes" to one or more of the above questions, a major permit amendment is required.

Instructions for form CH-03 – Major permit amendment checklist

1a) **AQ Facility ID number --** Fill in your Air Quality (AQ) Facility identification (ID) number. This is the first eight digits of the permit number for all new permits issued under the operating permit program. If you don't know this number, leave this line blank.

1b) **Agency Interest ID number --** Fill in your Agency Interest ID number. This is an ID number assigned to your facility through the Tempo database. If you don't know this number, leave this line blank.

1c) **Facility name** -- Enter the facility name.

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

CD-01

Compliance Plan
Air Quality Permit Program

Doc Type: Permit Application

Instructions on page 7

Facility information

1a) AQ Facility ID number: 12300015 1b) Agency Interest ID number: 23E

2) Facility name: 3M - R&D Facility

Submit a separate form for each Emission Unit/Tank/Fugitive Source or Group of Sources as necessary.

3a) Emission unit/tank/fugitive source identification number(s): EQUI 32, 34, 36, 38, 39, 40, 42, 43, 45, 46, 48, 49, 50, 86, 87

Associated control equipment number(s): TREA 35, 36, 37, 31, 39, 38, 40, 1, 3, 41, 32, 33, 34, 4, 8

Associated Monitoring System(s) (CEMS or COMS):

Associated stack/vent number(s): STRU 40, 41, 37, 47, 31, 30, 52, 28, 36, 53, 2, 3, 63, 47, 65

OR

3b) Group description:

Emission units/tanks/fugitive sources included in group:

Control equipment included in group:

Monitoring systems (CEMS or COMS) included in group:

Stack/vents included in group:

CEMS = continuous emission monitoring system; COMS = continuous opacity monitoring system

Use **Section A** of this form when you are applying for the first time for a new individual operating permit (federal or state). This includes:

- permits for construction of new facilities
- permits for existing facilities that are switching to an individual permit from a Registration Permit, Capped Permit, or General Permit
- permits for existing facilities subject to permitting for the first time

Use **Section B** of this form when you are applying for an amendment to an existing individual operating permit (federal or state).

In addition to this form, use **Form CD-05** to identify operating parameters of control equipment when you are applying for the first time for an individual operating permit, or when applying for an amendment to an existing individual operating permit.

Section A – Compliance plan for a new individual operating permit

4) National Emission Standards for Hazardous Air Pollutants (NESHAP) for source categories (40 CFR pt. 63)

4a) On Form GI-09A, did you identify a Part 63 NESHAP that is or will be applicable to the item or group identified in question 3a or 3b (of this form)?

☐ No. Go on to question 4b.

☐ Yes. Attach a copy of each applicable Part 63 NESHAP subpart and subpart A. Highlight all applicable requirements of the entire subpart.

☐ Attached ☐ Not attached

4b) On Form GI-09A, did you propose limits on the item or group identified in question 3a or 3b (of this form) so that the entire facility is not a major source of HAPs?

☐ No. Go on to question 4c.

☐ Yes. Below, list the limit(s) you proposed, providing the proposed compliance demonstration.

Proposed limit	Proposed compliance demonstration

4c) On Form GI-09A, did you identify that a case-by-case determination of Maximum Achievable Control Technology (MACT) is required for the item or group identified in question 3a or 3b (of this form)?

☐ No. Go on to question 5.

☐ Yes. Attach your case-by-case proposal, including proposed compliance demonstration.

☐ Attached ☐ Not attached

5) National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR pt. 61)

5a) On Form GI-09B, did you identify a Part 61 NESHAP that is or will be applicable to the item or group identified in question 3a or 3b (of this form)?

☐ No. Go on to question 6.

☐ Yes. Attach a highlighted copy of each applicable Part 61 NESHAP. Highlight all applicable requirements of the entire subpart. ☐ Attached ☐ Not attached

6) New Source Performance Standards (NSPS) (40 CFR pt. 60)

6a) If required to complete Form GI-09D, did you identify a NSPS that is or will be applicable to the item or group identified in question 3a or 3b (of this form)?

☐ No. Go on to question 7.

☐ Yes. Attach a copy of each applicable NSPS subpart and subpart A. Highlight all applicable requirements of the entire subpart. ☐ Attached ☐ Not attached

7) Acid rain requirements (40 CFR pt. 72)

7a) On Form GI-09 or GI-09E, did you identify that the acid rain requirements are applicable to the item or group identified in question 3a or 3b (of this form)?

☐ No. Go on to question 8.

☐ Yes. Refer to the U.S. Environmental Protection Agency (EPA) website at http://www.epa.gov/airmarkets/business/forms.html#arp for the applicable acid rain program forms and instructions.

☐ Applicable forms attached and sent to EPA as appropriate

☐ Not attached

8) New Source Review (40 CFR pt. 52.21)

8a) On Form GI-09C, did you propose limits on the item or group identified in question 3a or 3b (of this form) so that the entire facility is not a major source under New Source Review, or so that portions of the proposed facility are not subject to certain elements of New Source Review?

☐ No. Go on to question 8b.

☐ Yes. Below, list the limit(s) you proposed, providing the proposed compliance demonstration.

Proposed limit	Proposed compliance demonstration

8b) Will the stationary source be permitted as a major source under New Source Review?

☐ No. Go on to question 9.

☐ Yes. Go on to question 8c.

8c) Is the item or group identified in question 3a or 3b (of this form) subject to Best Available Control Technology (BACT) requirements?

☐ No. Go on to question 9.

☐ Yes. Below, list the BACT requirements proposed for the item or group identified in question 3a or 3b of this form, providing the proposed compliance demonstration.

Proposed BACT limit	Proposed compliance demonstration

9) Minnesota standards of performance (Minn. R. ch. 7011)

9a) On Form GI-09I, did you identify the item or group listed in question 3a or 3b (of this form) as being subject to Minn. R. 7011.0515 (item 2a of Form GI-09I), any other industry specific Minnesota standard of performance (Table H of Form GI-09I), or to Minn. R 7011.0715 (item 4 of Form GI-09I)?

☐ No. Go on to question 10.

☐ Yes. List the rule(s) and specific limit(s) below, along with the proposed compliance demonstration.

Applicable rule	Rule limit	Proposed compliance demonstration

10) National or Minnesota Ambient Air Quality Standards (NAAQS or MAAQS)

10a) Is the item or group identified in question 3a or 3b subject to an existing or proposed limit required in order to meet NAAQS or MAAQS? (This would be identified through modeling.)

☐ No. Go on to question 11.

☐ Yes. List the limit(s) below, along with the proposed compliance demonstration.

Proposed limit	Proposed compliance demonstration

11) Environmental Assessment Worksheets (EAW) and Air Emissions Risk Analysis (AERA)

11a) Did you assume limits on the item or group listed in question 3a or 3b in order to avoid the need to do an EAW or AERA?

☐ No.

☐ Yes: ☐ To avoid an AERA and/or ☐ To avoid an EAW
List the limit(s) below, along with the proposed compliance demonstration.

Proposed limit	Proposed compliance demonstration

11b) Does the item or group identified in question 3a or 3b require limits based on the results of an EAW or AERA that was performed?

☐ No.

☐ Yes. ☐ AERA and/or ☐ EAW
List the limit(s) below, along with the proposed compliance demonstration.

Proposed limit	Proposed compliance demonstration

12) Is there pollution control equipment associated with the item or group identified?

☐ No.

☐ Yes. Complete Form CD-05 for each associated control device or submit marked-up pages of the permit if only making changes to operating parameter values of existing control equipment.

13) Cross-State Air Pollution Rule (CSAPR) (40 CFR pt. 97)

13a) Is the item in 3a or does the group identified in 3b include a new or modified stationary fossil-fuel-fired boiler or stationary fossil-fuel-fired combustion turbine serving at any time, on or after January 1, 2005, a generator with a nameplate capacity or more than 25 megawatts electric (MWe) producing electricity for sale?

☐ No.

☐ Yes. Complete form GI-09K and include in your application.

Section B – Compliance plan for an amendment to an existing individual operating permit

14) To the extent that your proposed permit amendment consists of edits to existing permit language, you should attach to this form a copy of the relevant page(s) of the existing permit with proposed changes clearly marked.

Check one or more of the following statements, as applicable:

☒ All or part of the proposed permit changes for the item or group identified in question 3a or 3b are shown by edits to the existing permit language, a copy of which is attached to this form. If you show all changes with the edits to the existing permit language, you are done with this form.

☐ Some of the proposed permit changes for the item or group identified in question 3a or 3b cannot be shown by simply marking up existing permit language, so I am answering the questions below.

☐ New requirements to existing equipment are inclusively shown by including a highlighted copy of the applicable rule. If the highlighted rule does not include all requirements (e.g. control equipment operating requirements), or if newly applicable requirements cannot be exclusively shown with a highlighted version of the rule, answer the questions below.

For any proposed changes that cannot be easily and clearly shown by submitting marked-up pages from your existing permit, answer the questions that follow.

15) National Emission Standards for Hazardous Air Pollutant Sources (NESHAPS) for Source Categories (40 CFR pt. 63)

15a) On CH-07, did you identify a newly applicable Part 63 NESHAP for the item or group identified in question 3a or 3b (of this form)?

☐ No. Go on to question 15b.

☐ Yes. Attach a copy of each newly applicable Part 63 NESHAP subpart and subpart A. Highlight all applicable requirements of the entire subpart. ☐ Attached ☐ Not attached

15b) On Form CH-07, did you propose limits on the item or group identified in question 3a or 3b (of this form) so that the entire facility is not a major source of HAPs?

☐ No. Go on to question 15c.

☐ Yes. Below, list the limit(s) you proposed, providing the proposed compliance demonstration.

Redlined Permit

Suggested Edits Shown to Title V Air Quality Permit No. 12300015

Requirement number	Requirement and citation
	for each affected facility. [40 CFR 60.744(b)(2), Minn. R. 7011.3100]
5.10.10	Volatile Organic Compounds: For each affected facility, the Permittee must record semi-annual estimates of projected VOC use and actual 12-month VOC use. Report, if applicable, the first semiannual estimate in which projected annual VOC use exceeds an applicable cutoff and/or the first 12-month period in which actual VOC use exceeds the applicable cutoff. [40 CFR 60.747(c), Minn. R. 7011.3100]
EQUI 32	**Spray Booth 280-W129 West**
5.11.1	The Permittee shall limit the Process Throughput <= 150.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.11.2	The Permittee shall limit the Compressor Operating Hours <= 500.0 hours per year. The spray booth shall have only one compressor for use with spray guns. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.11.3	The Permittee shall limit the Compressor Operating Hours <= 12.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.11.4	Opacity <= 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. [Minn. R. 7011.0710, subp. 1(B)]
5.11.5	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0710, subp. 1(A)]
5.11.##	PM < 10 micron <= 0.17 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.11.6	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI32 to control equipment meeting the requirements of TREA35 of this permit. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.11.7	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.11.8	Compressor Operating Hours: Daily Recordkeeping. Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.11.9	Compressor Operating Hours: Daily Recordkeeping. Once the compressor has reached the 12.0 hours per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.11.10	Compressor Operating Hours: Annual Recordkeeping. Once the compressor has reached the limit of 500 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth). In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 5]

Requirement number	Requirement and citation
5.11.11	Monitoring Equipment for Compressor Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor. The meter shall have an automatic lock-out device that disables the compressor when the hours limit is reached. Once the cumulative hours on the meter reaches 500 hours for the given calendar year, the compressor shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.11.12	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short term potential to emit of EQUI32. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI32. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 34	**Spray Booth 280-W129 East**
5.12.1	Process Throughput <= 150.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.12.2	The Permittee shall limit the Compressor Operating Hours <= 500.0 hours per year. The spray booth shall have only one compressor for use with spray guns. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.12.3	The Permittee shall limit the Compressor Operating Hours <= 12.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.12.4	Opacity <= 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. [Minn. R. 7011.0710, subp. 1(B)]
5.12.5	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0710, subp. 1(A)]
5.12.##	PM < 10 micron <= 0.17 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.12.6	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI34 to control equipment meeting the requirements of TREA36 of this permit. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.12.7	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.12.8	Compressor Operating Hours: Daily Recordkeeping. Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.12.9	Compressor Operating Hours: Daily Recordkeeping. Once the compressor has reached the 12.0 hour per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]

Requirement number	Requirement and citation
5.12.10	Compressor Operating Hours: Annual Recordkeeping. Once the compressor has reached the limit of 500.0 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth). In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subps. 4-5]
5.12.11	Monitoring for Compressor Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor. The meter shall have an automatic lock-out device that disables the compressor when the hours limit is reached. Once the cumulative hours on the meter reaches 500.0 hours for the given calendar year, the compressor shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) & Minn. R. 7007.3000]
5.12.12	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short term potential to emit of EQUI34. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI34. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 36	**Spray Booth 216-2S**
5.13.1	Process Throughput <= 100.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.13.2	The Permittee shall limit the Compressor Operating Hours <= 1500 hours per year. The spray booth shall have only one compressor for use with spray guns. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.13.3	The Permittee shall limit the Compressor Operating Hours <= 12.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.13.4	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.13.5	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.13.##	PM < 10 micron <= 0.40 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.13.6	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI36 to control equipment meeting the requirements of TREA37 of this permit. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.13.7	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.13.8	Compressor Operating Hours: Daily Recordkeeping. Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start)

Requirement number	Requirement and citation
	5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.13.9	Compressor Operating Hours: Daily Recordkeeping. Once the compressor has reached the 12.0 hours per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.13.10	Compressor Operating Hours: Annual Recordkeeping. Once the compressor has reached the limit of 1500 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth). In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 5]
5.13.11	Monitoring for Compressor Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor. The meter shall have an automatic lock-out device that disables the compressor when the hours limit is reached. Once the cumulative hours on the meter reaches 1500 hours for the given calendar year, the compressor shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.13.12	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short term potential to emit of EQUI36. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI36. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 38	**Spray Booth 230-G59**
5.14.1	Process Throughput <= 100.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.14.2	The Permittee shall limit the Compressor Operating Hours <= 600.0 hours per year. The spray booth shall have only one compressor for use with spray guns. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.14.3	The Permittee shall limit the Compressor Operating Hours <= 12.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.14.4	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.14.5	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.14.##	PM < 10 micron <= 4.89 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.14.6	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI38 to control equipment meeting the requirements of TREA31 of this permit. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.14.7	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]

Requirement number	Requirement and citation
5.14.8	Compressor Operating Hours: Daily Recordkeeping. Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.14.9	Compressor Operating Hours: Daily Recordkeeping. Once the compressor has reached the 12.0 hours per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.14.10	Compressor Operating Hours: Annual Recordkeeping. Once the compressor has reached the limit of 600.0 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth). In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 5]
5.14.11	Monitoring for Compressor Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor. The meter shall have an automatic lock-out device that disables the compressor when the hours limit is reached. Once the cumulative hours on the meter reaches 600.0 hours for the given calendar year, the compressor shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.14.12	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short term potential to emit of EQUI38. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI38. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 39	**Spray Booth 235-WN116**
5.15.1	Process Throughput <= 30.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.15.2	The Permittee shall limit the Compressor Operating Hours <= 500.0 hours per year. The spray booth shall have only one compressor for use with spray guns. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.15.3	The Permittee shall limit the Compressor Operating Hours <= 12.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.15.4	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.15.5	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.15.##	PM < 10 micron <= 0.07 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.15.6	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI39 to control

Requirement number	Requirement and citation
	equipment meeting the requirements of TREA39 of this permit. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.15.7	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.15.8	Compressor Operating Hours: Daily Recordkeeping. Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.15.9	Compressor Operating Hours: Daily Recordkeeping. Once the compressor has reached the 12.0 hours per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.15.10	Compressor Operating Hours: Annual Recordkeeping. Once the compressor has reached the limit of 500 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth). In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 5]
5.15.11	Monitoring for Compressor Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor. The meter shall have an automatic lock-out device that disables the compressor when the hours limit is reached. Once the cumulative hours on the meter reaches 500.0 hours for the given calendar year, the compressor shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.15.12	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short term potential to emit of EQUI39. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI39. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 40	**Spray Booth 235-A353**
5.16.1	Process Throughput <= 130.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. This throughput limit is more stringent than the BACT limit, which also applies. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.16.2	Process Throughput <= 1200.0 pounds per hour spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.16.3	The Permittee shall limit the Compressor (or other device) Operating Hours <= 440.0 hours per year. The spray booth shall have only one compressor or other product delivery device (e.g., pump) for use

Requirement number	Requirement and citation
	with airless spray gun equipment. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.16.4	The Permittee shall limit the Compressor or Other Delivery Device Operating Hours <= 12.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.16.5	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.16.6	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.16.##	PM < 10 micron <= 1.61 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.16.7	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI40 to control equipment meeting the requirements of TREA38 of this permit. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.16.8	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.16.9	Compressor Operating Hours: Daily Recordkeeping. Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor or other delivery device use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.16.10	Compressor Operating Hours: Daily Recordkeeping. Once the compressor or other delivery device has reached the 12.0 hours per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.16.11	Compressor Operating Hours: Annual Recordkeeping. Once the compressor or other delivery device has reached the limit of 440.0 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth). In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 5]
5.16.12	Monitoring for Compressor or Other Delivery Device Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor or delivery device. The meter shall have an automatic lock-out device that disables the compressor or delivery device when the hours limit is reached. Once the cumulative hours on the meter reaches 440 hours for the given calendar year, the compressor or other delivery device shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.16.13	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short-term potential to emit of EQUI40. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation~~

Requirement number	Requirement and citation
	~~that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI40. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 42	**Spray Booth 240-SE Wall**
5.17.1	Process Throughput <= 100.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.17.2	The Permittee shall limit the Compressor Operating Hours <= 100.0 hours per year. The spray booth shall have only one compressor for use with spray guns. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.17.3	The Permittee shall limit the Compressor Operating Hours <= 12.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.17.4	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.17.5	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.17.##	PM < 10 micron <= 0.56 pounds per hour. [Minn. R. subp. 35a]
5.17.6	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI42 to control equipment meeting the requirements of TREA40 of this permit. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.17.7	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.17.8	Compressor Operating Hours: Daily Recordkeeping. Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.17.9	Compressor Operating Hours: Daily Recordkeeping. Once the compressor has reached the 12.0 hours per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.17.10	Compressor Operating Hours: Annual Recordkeeping. Once the compressor has reached the limit of 100.0 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth). In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.17.11	Monitoring for Compressor Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor. The meter shall have an automatic lock-out device that disables the compressor when the hours limit is reached. Once the cumulative hours on the meter reaches 100.0

Requirement number	Requirement and citation
	hours for the given calendar year, the compressor shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.17.12	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short term potential to emit of EQUI42. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI42. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 43	**Spray Booth 250-E126A**
5.18.1	Process Throughput <= 3.70 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.18.2	The Permittee shall limit the Compressor Operating Hours <= 200.0 hours per year. The spray booth shall have only one compressor for use with spray guns. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.18.3	The Permittee shall limit the Compressor Operating Hours <= 12.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.18.4	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.18.5	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.18.##	PM < 10 micron <= 0.11 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.18.6	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI43 to control equipment meeting the requirements of TREA1 of this permit. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.18.7	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.18.8	Compressor Operating Hours. Daily Recordkeeping. Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.18.9	Compressor Operating Hours: Daily Recordkeeping. Once the compressor has reached the 12.0 hours per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.18.10	Compressor Operating Hours: Annual Recordkeeping. Once the compressor has reached the limit of 200.0 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth).

Requirement number	Requirement and citation
	In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 5]
5.18.11	Monitoring for Compressor Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor. The meter shall have an automatic lock-out device that disables the compressor when the hours limit is reached. Once the cumulative hours on the meter reaches 200.0 hours for the given calendar year, the compressor shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.18.12	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short term potential to emit of EQUI43. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI43. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 45	**Spray Booth 250-E122**
5.19.1	Process Throughput <= 150.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.19.2	The Permittee shall limit the Compressor Operating Hours <= 300.0 hours per year. The spray booth shall have only one compressor for use with spray guns. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.19.3	The Permittee shall limit the Compressor Operating Hours <= 1.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.19.4	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.19.5	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.19.##	PM < 10 micron <= 2.81 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.19.6	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI45 to control equipment meeting the requirements of TREA3 of this permit. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.19.7	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.19.8	Compressor Operating Hours: Daily Recordkeeping. Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]

Requirement number	Requirement and citation
5.19.9	Compressor Operating Hours: Daily Recordkeeping. Once the compressor has reached the 1.0 hour per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.19.10	Compressor Operating Hours: Annual Recordkeeping. Once the compressor has reached the limit of 300.0 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth). In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 5]
5.19.11	Monitoring for Compressor Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor. The meter shall have an automatic lock-out device that disables the compressor when the hours limit is reached. Once the cumulative hours on the meter reaches 300.0 hours for the given calendar year, the compressor shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.19.12	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short term potential to emit of EQUI45. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI45. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 46	**Spray Booth 250-E123A**
5.20.1	Process Throughput <= 150.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.20.2	The Permittee shall limit the Compressor Operating Hours <= 300.0 hours per year. The spray booth shall have only one compressor for use with spray guns. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.20.3	The Permittee shall limit the Compressor Operating Hours <= 1.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.20.4	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.20.5	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.20.##	PM < 10 micron <= 0.63 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.20.6	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI46 to control equipment meeting the requirements of TREA41 of this permit. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.20.7	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.20.8	Compressor Operating Hours: Daily Recordkeeping. Each time the spray booth is operated, the

Requirement number	Requirement and citation
	Permittee shall maintain a log of the spray booth compressor use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.20.9	Compressor Operating Hours: Daily Recordkeeping. Once the compressor has reached the 1.0 hours per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.20.10	Compressor Operating Hours: Annual Recordkeeping. Once the compressor has reached the limit of 300.0 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth). In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 5]
5.20.11	Monitoring for Compressor Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor. The meter shall have an automatic lock-out device that disables the compressor when the hours limit is reached. Once the cumulative hours on the meter reaches 300 hours for the given calendar year, the compressor shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) & Minn. R. 7007.3000]
5.20.12	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short term potential to emit of EQUI46. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI46. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 47	**219 Coater (000301)**
5.21.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.21.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
EQUI 48	**Spray Booth 251-B230**
5.22.1	Process Throughput <= 70.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.22.2	The Permittee shall limit the Compressor Operating Hours <= 365.0 hours per year. The spray booth shall have only one compressor for use with spray guns. This is more stringent than the BACT limit, which also applies. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.22.3	The Permittee shall limit the Compressor Operating Hours <= 1.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Minn. Stat. 116.07, subd. 9]

Requirement number	Requirement and citation
5.22.4	The Permittee shall limit the Compressor Operating Hours <= 500.0 hours per year. The spray booth shall have only one compressor for use with spray guns. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.22.5	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.22.6	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.22.##	PM < 10 micron <= 2.57 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.22.7	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI48 to control equipment meeting the requirements of TREA32 of this permit. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.22.8	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.22.9	Compressor Operating Hours: Daily Recordkeeping. Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.22.10	Compressor Operating Hours: Daily Recordkeeping. Once the compressor has reached the 1.0 hours per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.22.11	Compressor Operating Hours: Annual Recordkeeping. Once the compressor has reached the limit of 365.0 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth). In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 5]
5.22.12	Monitoring for Compressor Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor. The meter shall have an automatic lock-out device that disables the compressor when the hours limit is reached. Once the cumulative hours on the meter reaches 365.0 hours for the given calendar year, the compressor shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.22.13	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short-term potential to emit of EQUI48. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI48. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 49	**Spray Booth 251-B242**

Requirement number	Requirement and citation
5.23.1	Process Throughput <= 70.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.23.2	The Permittee shall limit the Compressor Operating Hours <= 365.0 hours per year. The spray booth shall have only one compressor for use with spray guns. This is more stringent than the BACT limit, which also applies. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.23.3	The Permittee shall limit the Compressor Operating Hours <= 500 hours per year. The spray booth shall have only one compressor for use with spray guns. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.23.4	The Permittee shall limit the Compressor Operating Hours <= 1.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.23.5	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.23.6	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.23.##	PM < 10 micron <= 2.74 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.23.7	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI49 to control equipment meeting the requirements of TREA33 of this permit. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.23.8	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.23.9	Recordkeeping for Daily Compressor Operating Hours: Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.23.10	Compressor Operating Hours: Daily Recordkeeping. Once the compressor has reached the 1.0 hours per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.23.11	Compressor Operating Hours: Annual Recordkeeping. Once the compressor has reached the limit of 365.0 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth). In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 5]
5.23.12	Monitoring for Compressor Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor. The meter shall have an automatic lock-out device that disables the compressor when the hours limit is reached. Once the cumulative hours on the meter reaches 365hours for the given calendar year, the compressor shall be removed, locked-out, or rendered

Requirement number	Requirement and citation
	inoperable until the next calendar year (January 1). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.23.13	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short term potential to emit of EQUI49. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI49. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 50	**Spray Booth 251-B330**
5.24.1	Process Throughput <= 225.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.24.2	The Permittee shall limit the Compressor Operating Hours <= 100.0 hours per year. The spray booth shall have only one compressor for use with spray guns. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.24.3	The Permittee shall limit the Compressor Operating Hours <= 1.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.24.4	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.24.5	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.24.##	PM < 10 micron <= 8.80 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.24.6	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI50 to control equipment meeting the requirements of TREA34 of this permit. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.24.7	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.24.8	Compressor Operating Hours: Daily Recordkeeping. Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.24.9	Compressor Operating Hours: Annual Recordkeeping. Once the compressor has reached the limit of 100.0 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth). In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 5]
5.24.10	Compressor Operating Hours: Daily Recordkeeping. Once the compressor has reached the 1.0 hours per day limit, the Permittee shall notify personnel that the spray booth is no longer available for

Requirement number	Requirement and citation
	spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.24.11	Monitoring for Compressor Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor. The meter shall have an automatic lock-out device that disables the compressor when the hours limit is reached. Once the cumulative hours on the meter reaches 100 hours for the given calendar year, the compressor shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.24.12	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short term potential to emit of EQUI50. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI50. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 51	**Spray Can Booth G**
5.25.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.25.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.25.3	Control Equipment: The Permittee shall vent emissions from this spray booth to control equipment meeting the requirements of TREA2 of this permit. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.25.4	This spray booth does not have spray application equipment (e.g., only uses small aerosol spray cans). The Permittee may move this existing booth as long as all applicable permit conditions are met and the booth continues to have no spray application equipment. Installation of spray application equipment would be treated as a modification and must go through the appropriate procedure per Minn. R. ch. 7007. This emission unit includes equipment that could otherwise be classified as insignificant under Minn. R. 7007.1300. [Minn. R. 7007.0800, subp. 2]
EQUI 61	**Gravure Coater**
5.26.1	Volatile Organic Compounds <= 15 percent by weight coater material content. [Minn. R. 7005.0100, subp. 35a]
5.26.2	Daily Recordkeeping. On each day of operation, the Permittee shall calculate, record, and maintain the VOC content, by weight, of all coatings using in EQUI61. This shall be based on written or electronic logs. [Minn. R. 7007.0800, subps. 4-5]
5.26.3	Volatile Organic Compounds: Material Content. VOC contents in coating materials shall be determined by: (1) the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier and/or (2) the lab or pilot plant formulation data sheet for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range shall be used in all compliance calculations. If there is information provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained shall supersede the MSDS. [Minn. R. 7007.0800, subps. 4-5]
EQUI 86	**Spray Booth 230-S118**

Requirement number	Requirement and citation
5.27.1	Process Throughput <= 125.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.27.2	The Permittee shall limit the Compressor (or other device) Operating Hours <= 100.0 hours per year. The spray booth shall have only one compressor or other delivery device (e.g. pump) for use with spray guns. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.27.3	The Permittee shall limit the Compressor or Other Delivery Device Operating Hours <= 6.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.27.4	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.27.5	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.27.##	PM < 10 micron <= 7.39 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.27.6	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI86 to control equipment meeting the requirements of TREA4. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.27.7	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.27.8	Compressor Operating Hours: Daily Recordkeeping. Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor or other delivery device use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.27.9	Compressor Operating Hours: Daily Recordkeeping: Once the compressor or other delivery device has reached the 6.0 hours per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.27.10	Compressor Operating Hours: Annual Recordkeeping. Once the compressor or other delivery device has reached the limit of 100.0 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth). In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 5]
5.27.11	Monitoring for Compressor or Other Delivery Device Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor or delivery device. The meter shall have an automatic lock-out device that disables the compressor or delivery device when the hours limit is

Requirement number	Requirement and citation
	reached. Once the cumulative hours on the meter reaches 100.0 hours for the given calendar year, the compressor of delivery device shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000 , Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.27.12	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short term potential to emit of EQUI86. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI86. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 87	**Spray Booth 201-S83**
5.28.1	Process Throughput <= 100.0 pounds per hour 24-hour rolling average spray gun capacity for any given spray gun. The Permittee shall operate only one gun at a time in the spray booth. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.28.2	The Permittee shall limit the Compressor Operating Hours <= 365.0 hours per year. The spray booth shall have only one compressor for use with spray guns. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.28.3	The Permittee shall limit the Compressor Operating Hours <= 1.0 hours per day. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.28.4	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.28.5	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.28.##	PM < 10 micron <= 4.89 pounds per hour. [Minn. R. 7005.0100, subp. 35a]
5.28.6	Control Equipment: The Permittee shall vent emissions from this spray booth EQUI87 to control equipment meeting the requirements of TREA8. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.28.7	Spray Gun Capacity: The Permittee shall maintain documentation of spray gun capacity in pounds per hour (e.g. manufacturer's specifications). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
5.28.8	Compressor Operating Hours: Daily Recordkeeping. Each time the spray booth is operated, the Permittee shall maintain a log of the spray booth compressor use, to include: 1) Date 2) Hour meter reading at start of compressor use 3) Hour meter reading at end of compressor use 4) Amount of time compressor is used (Meter reading at end - Meter reading at start) 5) Total hours compressor used for the day, as a running total adding each previous compressor use for the day. [Minn. R. 7007.0800, subps. 4-5]
5.28.9	Compressor Operating Hours: Daily Recordkeeping. Once the compressor has reached the 1.0 hours per day limit, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the day. The Permittee shall maintain a record of the notification. [Minn. R. 7007.0800, subps. 4-5]
5.28.10	Compressor Operating Hours: Annual Recordkeeping. Once the compressor has reached the limit of 365.0 hours per calendar year, the Permittee shall notify personnel that the spray booth is no longer available for spraying for the remainder of the calendar year (memo or posting by the booth).

Requirement number	Requirement and citation
	In addition, the Permittee shall maintain a written or computerized log stating that the booth has reached the limit on which date. The hour meter shall be reset each January and the cumulative hours for the past calendar year shall be recorded. [Minn. R. 7007.0800, subp. 5]
5.28.11	Monitoring for Compressor Hours: The Permittee shall install, operate, and maintain a cumulative hour meter on the compressor. The meter shall have an automatic lock-out device that disables the compressor when the hours limit is reached. Once the cumulative hours on the meter reaches 365.0 hours for the given calendar year, the compressor shall be removed, locked-out, or rendered inoperable until the next calendar year (January 1). [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
5.28.12	~~Maximum Contents of Materials and Minimum Transfer Efficiencies: The Permittee assumed certain worst-case contents of materials and transfer efficiencies when determining the short term potential to emit of EQUI87. These assumptions are listed in Appendix G of this permit. Changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]~~ The Permittee shall use one of the following options for demonstrating the short term PM10 potential to emit of EQUI87. Option 1. The Permittee may document that the actual solids content and transfer efficiency comply with the assumptions listed in Appendix G of this permit. Option 2. The Permittee may calculate the hourly emissions using the following equation: actual solids content (%) x actual coating application rate (pounds per hour) x (1-transfer efficiency) x ((100%-pollution control efficiency/100)). A change in parameters resulting in an increase of hourly potential to emit is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
EQUI 90	**Ozone Generating Units**
5.29.1	Opacity <= 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity (for units which were in operation before July 9, 1969). [Minn. R. 7011.0710, subp. 1(B)]
5.29.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735 (for units which were in operation before July 9, 1969). [Minn. R. 7011.0710, subp. 1(A)]
5.29.3	Opacity <= 20 percent opacity (for units which were not in operation before July 9, 1969). [Minn. R. 7011.0715, subp. 1(B)]
5.29.4	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735 (for units which were not in operation before July 9, 1969). [Minn. R. 7011.0715, subp. 1(A)]
EQUI 94	**Miscellaneous Laboratory Non-Combustion Particulate Sources**
5.30.1	Opacity <= 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity (for units which were in operation before July 9, 1969). [Minn. R. 7011.0710, subp. 1(B)]
5.30.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735 (for units which were in operation before July 9, 1969). [Minn. R. 7011.0710, subp. 1(A)]
5.30.3	Opacity <= 20 percent opacity (for units which were not in operation before July 9, 1969). [Minn. R. 7011.0715, subp. 1(B)]
5.30.4	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735 (for units which were not in operation before July 9, 1969). [Minn. R. 7011.0715, subp. 1(A)]
5.30.5	Particulate Matter: The R&D laboratory and maintenance processes currently consist of many small processes that generate very small amounts of particulate matter emissions. Any VOC emissions from these units are covered by the R&D VOC BACT limits. The PM generating processes include, but are not limited to grinding, curing, drying, flagging, crushing, sieving, material handling, etching, welding, pouring, classifying, cutting, drilling, sanding, jointing, planning, lathing, sawing, and milling. This is mainly equipment that would otherwise be classified as insignificant under Minn. R. 7007.1300 or changes made under Minn. R. 7007.1250. [Minn. R. 7007.0800, subp. 2]